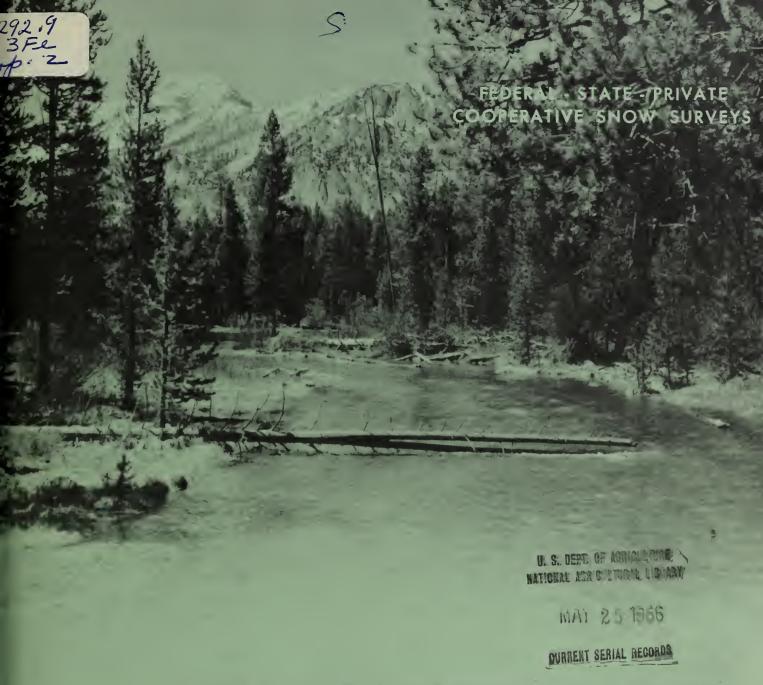
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WATER SUPPLY OUTLOOK

rederal - State - Private Cooperative Snow Surveys

for

WASHINGTON

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE. and

DEPARTMENT of CONSERVATION STATE of WASHINGTON

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, U.S. Geological Survey, National Park Service, and other Federal, State and private organizations.

MAY 1, 1966

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

	1 002101120 01 0012	001102111111011 02111101	
REPORTS	ISSUED	LOCATION	COOPERATING WITH
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEBMAY)	PORTLANO, OREGON	ALL COOPERATORS
BASIC DATA SUMMARY	OCTOBER 1	PORTLANO, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MARMAY)	PALMER, ALASKA	_ ALASKA S.C.D.
ARTZONA	SEMI-MONTHLY (JAN.15 - APR.1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC ARIZ. AGR. EXP. STATION
COLORADO ANO NEW MEXICO	MONTHLY (FEBMAY)	FORT COLLINS, COLORADO	— COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JANJUNE)_	BOISE. IOAHO	IOAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JANJUNE)_	BOZEMAN, MONTANA	_ MONT. AGR. EXP. STATION
NEVAOA	MONTHLY (JAN MAY)	RENO. NEVAOA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JANJUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JANJUNE)_	SALT LAKE CITY, UTAH	_ UTAH STATE ENGINEER
WASHINGTON-	MONTHLY (FEBJUNE)_	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEBJUNE)	_ CASPER, WYOMING	_ WYOMING STATE ENGINEER
	PUBLISHED B	Y OTHER AGENCIES	
REPORTS	ISSUED		AGENCY
BRITISH COLUMBIA	MONTHLY (FEBJUNE)	WATER RESOURCE FOREST AND WATER VICTORIA, B.C.,	S SERVICE, DEPT. OF LANOS, R RESOURCES, PARLIAMENT BLOG., CANAOA
CALIFORNIA	MONTHLY (FEBMAY)	CALIF. DEPT. OF	WATER RESOURCES, P.O. BOX 388,

FEDERAL-STATE-COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECASTS

For

WASHINGTON

Report Prepared By

Robert T. Davis, Snow Survey Supervisor

Soil Conservation Service 840 Bon Marche Building Spokane, Washington

Issued By

Orlo W. Krauter
State Conservationist
Soil Conservation Service
U. S. Department of Agriculture

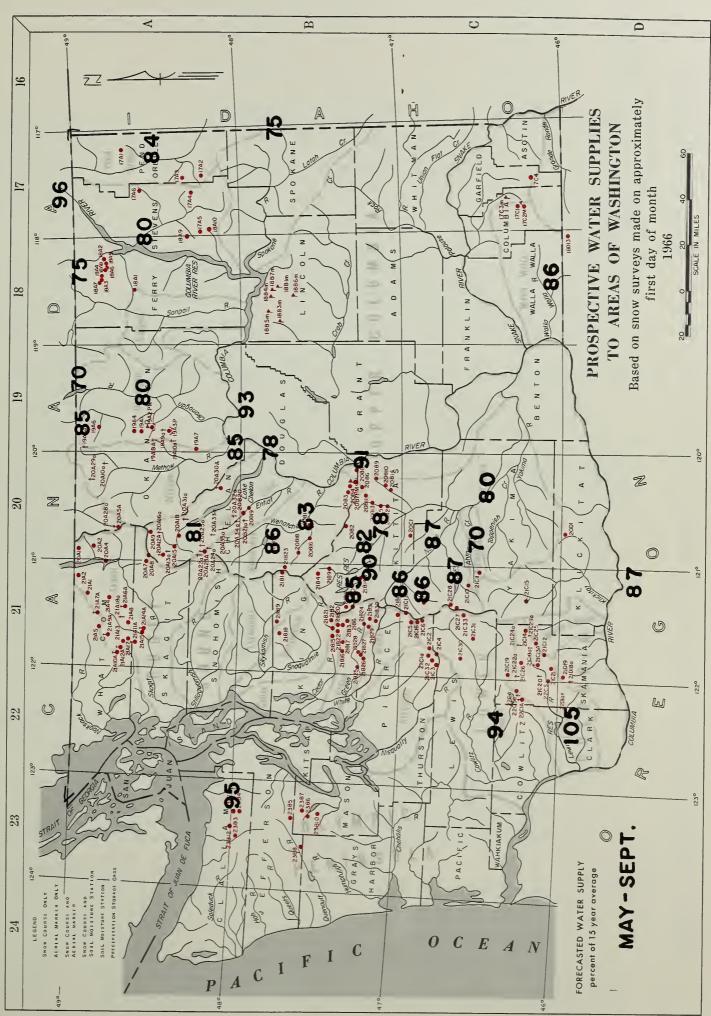
Murray G. Walker, Supervisor Division of Water Resources Department of Conservation State of Washington THE RESERVE TO STATE OF THE PARTY OF THE PAR

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INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE CAGES

Skagit River (continued) Skagit River (continued) Freezeout Creek Trail 20A1 14, 20N 14E 5000 Lake Hozomeon Lake Hozomeon Lake Hozomeon 20A2 29, 20N 14E 5000 Lake Hozomeon 20A3 29, 20N 14E 5000 Lake Hozomeon 20A4 29, 20N 14E 5000 20A7 15, 35N 14E 2000 Backer River 21A1A 19, 35N 11E 5400 21A1A 19, 38N 11E 5400 21A1A 19, 38N 11E 5400 21A1A 19, 38N 11E 5400 21A1A 19, 37N 1E 5400 21A1A 19, 37N 1E 5400 21A1A 19, 37N 1E 5400 21A1A 20, 37N 8E 1600 Schreibers Meadow 21A1A 20, 37N 8E 1600 Schreibers Meadow 21A1A 20, 37N 8E 1600 21A1A 20, 37N 9E 2000 21A1A 10 3000 21A1A 10 10 10 10 10 10 10 10 10 10 10 10 10	LEGEND NUMERING SYSTEM EXAMPLE 21A7 SHOW COURSE ONLY 21A7A SEGIAL MARKER ONLY 21A7A SHOW COURSE AND AERISTA MARKER 21A7A SHOW COURSE AND PRECIPITATION STORAGE GAGE 21A7P PRECIPITATION STORAGE GAGE 21A7P PRECIPITATION STORAGE GAGE
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ER COLUMBIA DRAINAGE Pend Oreille River 1742 1742 1743 24 1743 24 1743 24 1744 1745 1841 1948	Park Creek Flat 20A13a 18 34N 16E 2220 Park Creek Ridge 20A12A 7 34N 16E 4600 Petersons 20A16A 7 34N 17E 4780 Safety Harbor 20A30A 32 31N 17E 4780 Safety Harbor 20A30A 32 31N 20E 6300 War Greek Pass 20A30A 32 31N 20E 6300 Entiat Meadows 20A33a 28 31N 17E 4800 Entiat River Trail 20A32 2 29N 17E 1400 Pope Ridge 20A33a 28 31N 17E 4800 Phigh Ridge 20A33a 29 31N 17E 4800 Phigh Ridge 20A33a 21 30N 17E 3850 Tommy Creek Wenatchee River 20A35a 21 30N 17E 2925 Blewett Pass No. 2 20B2 35 22N 17E 1810 Chiwathum G. S. 20B2 35 22N 17E 1810 Lake Wenatchee River 20B20 4 25N 17E 1810 Lake Wenatchee 20B2 35 22N 17E 1810 Lake Wenatchee 20B2 35 22N 17E 1810 Lake Wenatchee 20B2 31 24N 17E 1970 Lake Wenatchee 20B3 4 25N 17E 1810 Lake Wenatchee 20B3 4 25N 17E 1970 Lake Wenatchee 20B3 1 24N 17E 1970 Lake Wenatchee 20B3 1 24N 17E 1970 Lake Wenatchee 20B3 1 24N 17E 1127 Herritt 20B18 1 26N 13E 4070

WATER SUPPLY OUTLOOK

State of Washington May 1, 1966

SNOW COVER

Many of the snow courses in the state and surrounding areas are not measured on the first of May because of low elevations. The snow courses that are measured indicate a snowpack that is 80% of last year at this time east of the Cascades and 70% of normal for this area. The lower Columbia drainage has a snowpack that is 25% greater than last year but 12% less than average. In the Puget Sound area the snow cover is 4% greater than last year but 22% less than normal. The only truly bright spot in the state is the Olympic Peninsula which has a snowpack 47% greater than last year and 5% greater than average.

RESERVOIRS

The reservoir storage picture is not as bright as was painted last month. Most reservoirs still have below normal amounts of water but most will fill with the spring runoff. In the Okanogan area Conconully Reservoir which had been pulled down is not expected to fill. In the Yakima area all reservoirs will not spill unless this warm, dry weather is replaced with above normal precipitation.

PRECIPITATION

All of the drainage divisions were reported by the U. S. Weather Bureau to have sub-normal rainfall during the month of April. These deficiencies were great enough to overcome most of the above normal precipitation measurements reported in March which leaves the March-April spring precipitation picture on the negative side. Only those stations reporting from the Columbia Basin in British Columbia ended up with a spring rainfall on the plus side of the ledger. Many of

the Machington stations reported billy a lease of rain borton the are

SOUL MOISTING

As can be somecred, May I soil setting in not too ludicaries of the off conditions. Here of the scarloss are sensored moder select some conditions which sold consults being the setting the satisfactors of bills at the condition. Here is the statement of bills at the condition. Here is the statement to the statement of the state

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STREAMFLOW FORECAST - MAY 1966

The following summarized runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts.

		Season	al Stream	nflow in	Thousar	nds of Ac	re-Feet
Basin, Stream	Forecast	%	Fore-				15 Yr.
and	Runoff	15-Yr.			asured F		Average
Station	1966	Avg.	Period	1965	1964	1963	1948-62
N 700 TANK 1 D. J.		COLUMBI	A BASIN				
Columbia River System							
Columbia River							
at Birchbank 1/	41000	96	May-Sep	40272	44217	38604	42519
Fin	31800	96	May-Jul	29971	34170	28975	33008
- 0.000	21900	97	May-Jun	20219	21448	19469	22475
Columbia River							
at Grand Coulee 1/	58900	93	May-Sep	61301	66239	52072	63335
at Grand Course 1/	48900	94	May-Jul	48555	54148	41073	52003
	36300	94	May-Jun	36140	38302	29427	38569
Columbia River	30300	74	Hay Juli	30140	30302	27-21	30307
bl. Rock Island Dam 1/	63500	91	May-Sep	65579	72608	56454	69730
,	51600	90	May-Jul	52352	59531	44898	57384
	38800	91	May-Jun	38638	41916	32451	42595
Columbia River	30000	7.	,	30030			
at The Dalles, Ore. 1/	['] 825 0 0	87	May-Sep	96282	100902	76867	94841
The state of the s	68400	87	May-Jul	78392	83876	61720	78671
The second second	53200	88	May-Jun	60321	61986	46210	60426
40 1110							
Pend Oreille River System Pend Oreille River	<u>em</u>						
bl. Box Canyon	12200	84	May-Sep		16702	9974	14549
or. box danyon	11000	83	May-Jul		15035	8952	13215
	9300	84	May-Jun		12446	7355	11043
	9300	04	nay-bull		12.770	, 555	110-75
Kettle River System	1320	75	May-Sep	1505	1885	1181	1754
Kettle River	1240	75	May-Jul	1407	1661	1120	1654
nr. Laurier	1100	74	May-Jun	1302	1442	980	1477

^{1/} Observed flow corrected for storage in any of the following reservoirs which are above the station: Kootenay Lake, Hungry Horse, Flathead Lake, Pend Oreille Lake, F. D. Roosevelt Lake, Lake Chelan, Coeur d'Alene Lake, Brownlee, Noxon Reservoir and pumpage at F. D. Roosevelt Lake.

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		Season	al Stream	nflow in	Thousands	of A	cre-Feet
Basin, Stream	Forecast	%	Fore-				15-Yr.
and	Runoff	15-Yr.	cast	M	easured Ru	noff	Average
Station	1966	Avg.	Period	1965	1964	1963	1948-62
Kettle River System (Cont.	.)						
Colville River							
at Kettle Falls	95	80	May-Sep	93	62	71	119
	83	80	May-Jul	81	53	62	104
	72	79	May-Jun	73	47	55	91
Spokane River System*							
Spokane River							
at Post Falls, Ida. 2/	1700	75	May-Sep	1924	2986	1085	2262
_	1600	74	May-Jul	1789	2826	1023	2160
	1500	75	May-Jun	1646	2616	945	2002
Okanogan River System**							
Similkameen River							
nr. Nighthawk	1320	85	May-Sep	1261	1778	1140	1556
	1240	86	May-Jul	1144	1629	989	1441
	1050	86	May-Jun	1015	1266	773	1222
Okanogan River							
at Oroville 3/	300	70	May-Sep		358	199	430
	295	69	May-Jul		314	201	428
	285	70	May-Jun		284	169	407
Okanogan River							
nr. Tonasket	1440	80	May-Sep	1492	1928	1150	1804
	1290	80	May-Jul	1350	1693	990	1618
	1090	81	May-Jun	1168	1289	766	1350
Methow River System**							
Methow River							
nr. Pateros	910	85	May-Sep	783	889	819	1069
	840	85	May-Jul	705	823	743	987

84

May-Jun

595

669

624

831

^{*} Forecasts made by Morlan W. Nelson and J. Alden Wilson, Soil Conservation Service, Boise, Idaho.

^{**} These forecasts are based in part upon base flow data especially prepared and furnished for the purpose by the U. S. Geological Survey.

^{2/} Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie Canals.

^{3/} Observed flow corrected for storage and diversions.

^{4/} Observed flow corrected for storage in Lake Chelan.

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		Season	al Stream	flow in	Thousand	ls of Acr	e-Feet	
Basin, Stream	Forecast	%	Fore-				15-Yr.	
and	Runoff	15-Yr.	cast		Measured	Runoff	Average	
Station	1966	Avg.	Period	1965	1964	1963	1948-62	
Chelan River System								
Chelan River								
at Chelan <u>4</u> /	950	78	May-Sep		1210	853	1221	
	830	78	May-Jul		1058	720	1070	
	650	80	May-Jun		738	573	814	
Stehekin River						100		
at Stehekin	700	81	May-Sep		889	644	861	
	590	81	May-Jul		756	524	728	
	440	82	May-Jun		519	405	535	
Wenatchee River System								
Wenatchee River								
at Plain	1060	86	May-Sep		1364	758	1238	
	960	87	May-Jul		1191	668	1108	
	750	88	May-Jun		820	551	854	
Wenatchee River								
at Peshastin	1410	83	May-Sep	1483	1812	1031	1700	
	1280	83	May-Jul	1337	1597	915	1535	
	1000	84	May-Jun	1058	1114	760	1191	
Stemilt Basin								
nr. Wenatchee	125		May-Sep	132*	146*	138		
Yakima River System								
Yakima River								
nr. Martin <u>5</u> /	110	85	May-Sep	94	183	55	130	
	99	84	May-Jul	88	162	50	118	
	83	85	May-Jun	78	118	44	98	
Yakima River								
at Cle Elum <u>6</u> /	660	78	May-Sep		1113	457	857	
	600	78	May-Jul		986	397	772	
	510	79	May-Jun		748	340	645	
Yakima River								
nr. Parker 7/	1220	80	May-Sep		1748	604	1533	
	1220	81	May-Jul		1660	624	1505	
	1110	83	May-Jun		1349	611	1343	
Vachana Dimen								

Kachess River

nr. Easton 8/

102

97

84

90

92

92

May-Sep

May-Jul

May-Jun

81

77

69

153

139

106

44

44

39

113 106

^{*} Thousands of Miners' Inches.

^{5/} Observed flow corrected for storage in Lake Keechelus.

^{6/} Observed flow corrected for storage in Keechelus, Kachess and Cle Elum Lakes and diversion by Kittitas Canal.

^{7/} Observed flow corrected for storage in Keechelus, Kachess, Cle Elum, Bumping and Rimrock Lakes and diversions by Roza, Union Gap, New Reservation, Old Reservation and Sunnyside Canals.

^{8/} Observed flow corrected for storage in Lake Kachess.

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Streamflow Forecasts - May 1966 (Cont)

			The state of the s	flow ir	Thousand	is of Ac	s of Acre-Feet		
Basin, Stream	Forecast	%	Fore-				15-Yr		
and	Runoff	15-Yr.			Measured		Average		
Station	1966	Avg.	Period	1965	1964	1963	1948-6		
Yakima River System (C	ont)								
Cle Elum River	/-								
nr. Roslyn 9/	370	82	May-Sep	362	533	242	449		
manths of the	340	84	May-Jul	330	475	220	407		
	275	83	May-Jun	276	353	190	332		
Bumping River									
nr. Nile 10/	125	86	May-Sep	112	159	73	145		
 -	115	87	May-Jul	103	140	66	132		
	92	87	May-Jun	87	99	58	106		
American River									
nr. Nile	105	86	May-Sep		123	71	122		
	96	86	May-Jul		111	65	112		
	77	86	May-Jun		82	55	90		
Tieton River									
at Tieton Dam 11/	210	87	May-Sep	179	217	144			
	175	87	May-Jul	154	182	114			
	135	87	May-Jun	122	127	94	155		
Naches River									
nr. Naches 12/	720	87	May-Sep		829	476	823		
	650	88	May-Jul		734	414	740		
	530	87	May-Jun		558	356	608		
Ahtanum Creeks									
nr. Tampico 13/	32	70	May-Sep		31	30			
	28	70	May-Jul		27	27	40		
	24	71	May-Jun		22	23	34		
Lower Columbia River S	ystem								
Mill Creek									
nr. Walla Walla	19	86	May-Sep	16	22	12	22		
	15	83	May-Jul	12	18	9	18		
	13	87	May-Jun	10	16	7	15		
Lewis River			·						
at Ariel 14/	1080	105	May-Sep	688	1141	676	1030		
	920	106	May-Jul	571	924	557	866		
	760	106	May-Jun	485	743	466	720		
Cowlitz River									
at Castle Rock <u>15</u> /	2100	94	May-Sep	1593	2736	1482			
	1790	94	May-Jul	1320	2290	1204			
9/ Observed flow cor	1430	94	May-Jun	1069	1745	972	1526		

Observed flow corrected for storage in Lake Cle Elum.

13/ Observed flow of North and South Forks (combined).

Observed flow corrected for storage in Mayfield Reservoir.

<u>9/</u> <u>10/</u> Observed flow corrected for storage in Bumping Lake.

Observed flow corrected for storage in Rimrock Lake.

Observed flow corrected for storage in Bumping and Rimrock Lakes and diversions by Tieton, Selah Valley, Wapatox Canals and City of Yakima.

Observed flow corrected for storage in Lake Merwin, Yale and Swift Reservoirs.

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PIC PE	NINSULA				
95 94	May-Sep May-Jul	110 88	144 116	120 92	158 127 91
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RESERVOIR STORAGE - 1000 Acre Feet

BASIN or		USABLE 1	/ M	easured	(May 1)	
STREAM	RESERVOIR	CAPACITY	1966	1965	1964	Normal*
		COLUMBI	<u>A</u>			
Spokane	Coeur d'Alene Lake	225.1	172.8	524.3	242.8	347.7
Columbia	Franklin D. Roosevelt Lake	5232.0	2786.0	3252.0	2984.0	3088.2
Columbia	Banks Lake 2/	761.8	401.6	247.4	120.6	450.0
Okanogan	Conconully Reservoir	13.0	1.2	6.1	5.1	9.1
Okanogan	Salmon Lake	10.5	7.6	8.1	9.5	9.2
Chelan	Lake Chelan	676.1	137.6	369.3	121.8	239.3
		YAKIMA	100			
Yakima	Keechelus Lake	157.8	127.8	122.2	74.2	111.3
Kachess	Kachess Lake	239.0	176.9	215.7	172.2	200.5
Cle Elum	Lake Cle Elum	436.9	283.0	387.3	142.4	328.4
Bumping	Bumping Lake	33.7	8.3	17.6	4.6	21.0
Tieton	Rimrock Lake	198.0	119.6	182.3	79.2	149.9
		PUGET SO	UND			
Skagit	Ross Reservoir $\frac{2}{}$	1202.9	571.2	839.1	718.0	511.2
Skagit	Diablo Reservoir	90.6	85.8	85.1	84.0	85.2
Skagit	Gorge Reservoir	9.8	8.2	7.8	8.2	

^{1/} Based on Active Storage

DESCRIPTION DESCRIPTION

^{2/} Less than 15-year record in period 1948-62

^{* 15-}year average 1948-62

DESCRIPTION OF THE PARTY NAMED IN

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		7,415	8,071	1.657	Monay Angland Dake	
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				8.265	Souther Labor 2/	midwalen
			3/1	0.01	Concornily Reservoir	organist.
			8/8	2.43	sae noctab	Okanogan
8.975			9.00	8.1449	Leiker Chellan	wijadi
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			4.733	8,360	Redchielies Links	matrice?
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		17.6	5.0	File	Sometrag Lake	Sand people
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	(2,8)		8.2		Corps Kanseyote	238022

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²⁶⁻¹⁴⁰⁷ married survey!

SOIL MOISTURE - MAY

Drainage Basin and	Number	Elev.	Profile	(Inches) Total	:	Soil M (Inches)		Content May 1
Station	···	Commission Company of the Second States of the Seco	Depth	Capacity	:	1966	1.965	1964
CRAB CREEK								
Creston-Kunz	18B1m	2440	48	13.6		10.6	10.5	10.8
Jack Woods	18B3m	2600	48	13.6		9.4	9.4	9.3
Krause	18B4m	2440	48	13.6		8.9	9.1	9.9
Sheffels	18B5m	2360	48	13.6		7.6	8.7	6.1
Wheatridge OKANOGAN	18B6m	2200	48	13.6		7.4	8.4	7.9
Trout Creek YAKIMA	3-M	3600	48	7.3		5.7*	6.3	7.3
Domery Flat	21B20m	2200	48	6.9		4.9	4.9	
Lake Cle Elum WALLA WALLA	21B14M	2200	48	12.8		. 9.2	9.0	9.1
Couse	17C3m	3650	48	11.1		7.5	10.8	9.6
Helmers WENATCHEE	17C2M	4400	48	12.0		10.8	12.4	11.0
Upper Wheeler	20B7M	4400	48	12.7		11.6	10.3	

^{*} April 15 measurement

FALL SOIL MOISTURE

Drainage Basin and	Number	Elev	Profile	(Inches) Total		oisture Co	
Station			Depth	Capacity	: 1965	1964	1963
CRAB CREEK							
Creston-Kunz	18B1m	2440	48 .	13.6	4.9	5.4	5.1
Jack Woods	18B3m	2600	48	13.6	5.0	4.4	6.3
Krause	18B4m	2440	48	13.6	5.8	5.9	5.2
Sheffels	18B5m	2360	48	13.6	4.0	3.7	3.7
Wheatridge	18B6m	2200	48	13.6	4.2	4.1	4.5
OKANOGAN			•				
Trout Creek	3-M	3600	48	7.3	4.1	4.9	4.1
YAKIMA							
Domery Flat	21B20m	2200	48	6.9	1.9	4.4	
Lake Cle Elum	21B14M	2200	48	12.8	6.9	8.5	6.6
WALLA WALLA							
Couse	17C3m	3650	48	11.1	6.0	5.6	5.7
Helmers	17C2M	4400	48	° 12.0	6.2	6.0	5.8
WENATCHEE			٠				
Upper Wheeler	20B7M	4400	48	12.7	6.2	5.3	

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PRECIPITATION $\frac{1}{}$ Division averages and Departures

DRAINAGE DIVISIONS	Contract of the Property of the Party of the	And to a female of the last of	Secretarian Schools, S. Samuel St.	The state of the s	Mar-April Observed-	A-1
Columbia in Canada	6.01	-0.36	9.68	+0.89	3.08	+0.10
Pend Oreille - Spokane	5.44	-3.50	8.94	-3.23	4.71	-0.30
Northeastern Washington	3.31	-2.00	4.97	-2.31	2.40	-0.59
Southeastern Washington	2.84	-3.03	5.71	-2.28	3.07	-0.85
Central Washington	5.55	-6.32	15.27	-3.43	3.29	-2.34
North Central Washingto	n 1.65	-1.38	3.63	-1.06	1.26	-0.51
Northwest Slope Cascade	s 16.93	-8.11	27.13	-6.32	12.03	-1.46
Southwest Slope Cascade	s 11.21	-6.88	23.04	-3.09	10.13	-0.48
Blue Mountains, Oregon	2.49	-2.23	4.89	-2.32	1.98	-1.46
Lower Columbia in Orego	n 3.23	-1.17	5.97	-2.21	1.62	-1.53

Northeastern Washington

- Lower Spokane, Colville, Sanpoil and lower Kattle drainages

Southeastern Washington

Touchet, Tucannon and Palouse drainages

Central Washington

- Yakima, Wenatchee and Chelan drainages

North Central Washington

- Methow and Okanogan drainages

Northwest Slope Cascades

Puget Sound drainages

Southwest Slope Cascades

- Lower Columbia drainages

- 1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meteorological Services of Canada and U. S. Weather Bureau
- 2/ Departure from 15-year (1948-62) drainage division average

Note - Precipitation shown in inches

O statements of the superior sections.

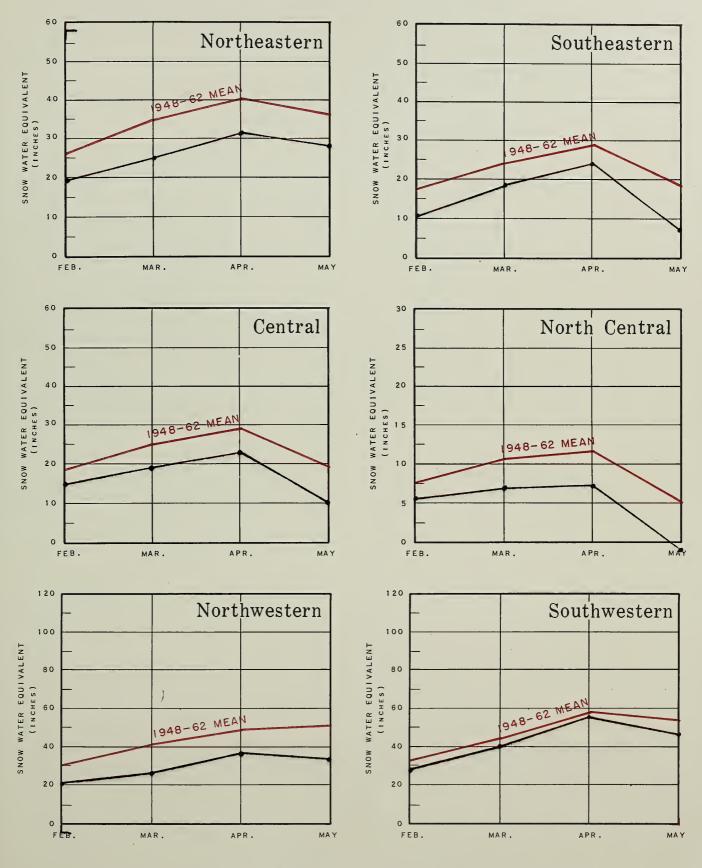
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morphidal labeled	12.15	56.4-	11.31			
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ORANIE TOD STREET	Gill s	100,00		90.5-		All on-
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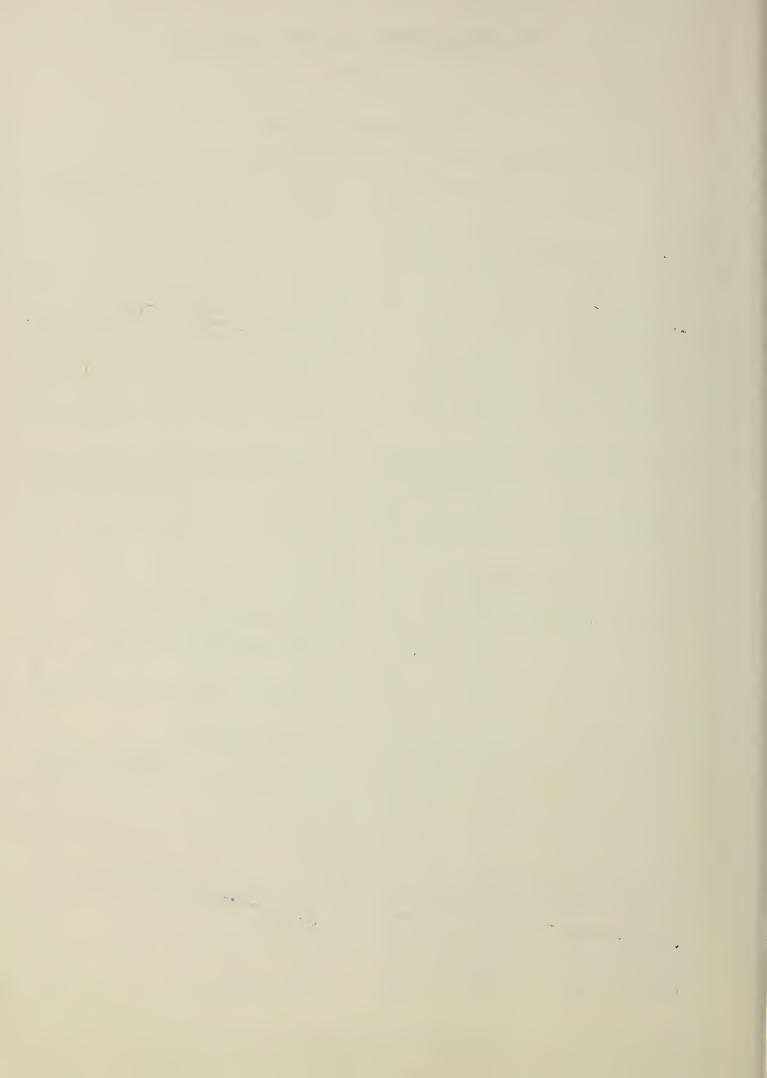
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WASHINGTON SNOW COVER

1966

DRAINAGE AREAS

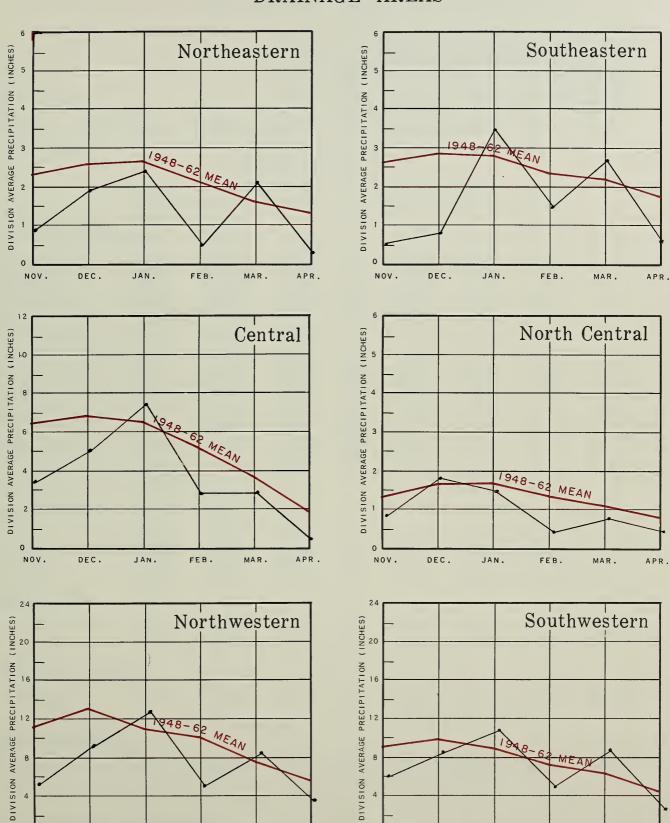




WASHINGTON VALLEY PRECIPITATION

1965 - 1966

DRAINAGE AREAS



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APPENDIX 1 SNOW DATA MAY 1, 1966

					SNOW CO	OVER MEAS	UREMENT	
				1966		:Past	Rе	cord
DRAINAGE BASIN			Date	Snow	Water	: Water	Content	(In.)
and			of	Depth	Conten			1948-62
SNOW COURSE	No.	Elev.	Survey	(In.)	(In.)	:1965	1964	Avg.
		MID-M	ONTH SU	JRVEYS				
	Snow Surve	eys made	on or	about	April 1	5, 1966		
LIENAMOURE DIVER								
WENATCHEE RIVER								
Blewett Pass #2	20B2	4270	4/15	22	10.1	15.1	15.0	15.8*
Lake Wenatchee	20B2	1970	4/19	7	3.0	13.1	15.0	13.0
Stevens Pass	21B1	4070	4/13	109	49.3	59.2	81.0	57.0*
occvens rass	2101	4070	4/13	10)	47.5	37.2	01.0	37.0
YAKIMA RIVER								
#Blewett Pass #2	20B2	4270	4/15	22	10.1	15.1	15.0	15.8*
Bumping Lake	21C8	3450	4/14	38	16.5	11.1	16.1	15.2*
Lake Cle Elum	21B14M	2200	4/19	0	0.0	0.0	1.9	2.6*
#01allie Meadows	21B2	3625	4/14	102	48.6	57.6	85.2	54.3*
#Stampede Pass	21B10	3000	4/14	88	42.6	51.7	62.2	52.0*
Tunnel Avenue	21B8	2450	4/19	40	16.3	23.8	40.4	25.7*
White Pass (E. Side)	21C28	4500	4/18	50	22.7	27.6	31.1	31.1*
COWLITZ RIVER								
Author Deserver College	111111	1500	/ /10	50	22.7	27 6	31.1	31.1*
#White Pass (E. Side		4500	4/18 4/16	50	22.7 55.2	27.6 68.9	96.5	31,1^
Pigtail Peak	21C33	5900	4/16	115	33.2	00.9	90.5	
GREEN RIVER								
GKEEN KIVEK								
Stampede Pass	21B10	3000	4/14	88	42.6	51.7	62.2	52.0*
Tumpede 1 des	21210	3000	1, 1		,2,0	32	V-V-	
SNOQUALMIE RIVE	R							
	-							
Olallie Meadows	21B2	3625	4/14	102	48.6	57.6	85.2	54.3*
SKYKOMISH RIVER								
11.0	411,511						01.0	
#Stevens Pass	21B1	4070	4/13	109	49.3	59.2	81.0	57.0*

[#] Not directly on this drainage* Adjusted 1948-62 average

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					SNOW C	OVER MEA	SUREMEN'	ſ
				1966		:Pas	t Re	cord
DRAINAGE BASIN			Date	Snow	Water	: Water	Content	t (In.)
and			of	Depth	Conten	t:		1948-62
SNOW COURSE	No.	Elev.	Survey	(In.)	(In.)	:1965	1964	Avg.
Snow	Surveys	made on	or abou	t April	15, 19	966 (Con	t.)	
	,			-		~		
BAKER RIVER								
Dock Butte	21A11A	3800	4/15	166	79.3	67.8	106.6	
Easy Pass	21A7A	5200	4/15	178	86.2	85.1	117.0	
Jasper Pass	21A6A	5400	4/15	204	97.7	84.9	104.1	and com
Koma Kulshan	21A17	800	4/15	5	2.3			cop 000
Marten Lake	21A9A	3600	4/15	180	88.5	78.3	107.5	as as
#Panorama	21A5	4300	4/15	209	98.3	84.9	88.9	
Rocky Creek	21A12A	2100	4/15	82	40.5	28.6	45.2	
Schreibers Meadow	21A10A	3400	4/15	150	74.8	61.8	80.0	
S. F. Thunder Cr.	21A14A	2200	4/15	1	0.4	0.0	2.6	
Sulphur Creek	21A13	1600	4/15	38	16.3	12.6		
Three Mile Creek	21A15	1600	4/15	0	0.0			
Watson Lakes	21A8A	4500	4/15	168	78.1	67.0	96.8	
NOOKSACK RIVER								
Panorama	21A5	4300	4/15	209	98.3	84.9	88.9	
ENTIAT RIVER								
Entiat River Tr. +	20A34a	3150	4/11	24	9.8	New Ae	rial Ma	rker
Pope Ridge	20B20	4300	4/13	21	8.8	New Co		
1 0	20B20 20A32a	6400	4/11	70	28.6		rial Ma	rker
Pugh Ridge +	ZUAJZa	0400	4/11	70	20.0	11CW 11C		

4/11

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New Aerial Marker

New Aerial Marker

Snow Brushy +

Tommy Creek +

20A35a

20B21a

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^{*} Adjusted 1948-62 average # Not directly on this drainage

⁺ Snow water equivalent estimated from aerial stadia observations

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APPENDIX 3 SNOW DATA MAY 1, 1966

	SNOW COVER MEASUREMENT								
			1966 :Past					cord	
DRAINAGE BASIN			Date	Snow	Water		Content	The second named in column 2 is not a second	
and			of		Conten		Conten	1948-62	
SNOW COURSE	No.	Elev.		•	(In.)		1964	Avg.	
Diton Goords		2104.	Durvey	(111.)	(211.)	.1703	1704	*****	
U	PPER	COLU	MBIA	D R	AINA	AGE			
PEND OREILLE F	RIVER								
Baree Creek	15B11	5500	5/2	77	39.4	45.2	58.8	49.1	
Baree Midway	15B16	4600	5/2	52	24.8	New Co	urse		
Benton Spring	16A3	4900	4/28	28	12.0	11.0	21.6	18.2	
Benton Meadow	16A2	2344	4/28	0	0.0	0.0	0.0	0.0*	
Boyer Mountain	17A2	5250	4/29	39	19.4	30.4	27.9	24.1*	
Brush Creek	14A4	5000	4/27	19	7.2	10.2	12.4	10.7*	
Bunchgrass Meadow	17A1	5000	4/26	50	23.8	30.1	33.1	28.6	
Hoodo Creek	15C1	6200	4/26	88	41.2	56.6	55.2	50.2*	
Lookout	15B2	5250	4/29	66	30.0	36.6	44.3	36.4	
Nelson	Canada	3050	4/29	22	8.3	6.0	13.4	5.2**	
Schweitzer Bowl	16A6	4500	4/29	49	22.2	19.7	30.6	as as	
Schweitzer Ridge	16A5	6100	4/29	102	47.0	47.5	56.2	es es	
Smith Creek	16A1	4800	5/2	83	43.1	44.2	56.4	47.5*	
Winchester Creek	17A3	2970	4/30	0	0.0	2.4	0.0		
KETTLE RIVER									
Barnes Creek	Canada	5300	4/28	51	21.9	18.9	24.0	æ ⇔	
Boulder Road	18A2	1450	4/26	0	0.0		0.0		
Butte Creek	18A3	4070	4/26	9	3.4	7.1	5.2	≈ ≈	
Cabin Creek	18A8	3170	4/26	0	0.0	0.0	0.0	co es	
Carmi	Canada	4100	5/1	0	0.0	0.0	0.0	cor cor	
Farron	Canada	4000	4/29	16	6.7	7.1	11.9		
Goat Creek	18A4	3595	4/26	0	0.0	0.0	0.0		
Monashee Pass	Canada	4500	4/28	31	13.5	12.0	16.3	12.9**	
Old Glory Mountain	Canada	7000	4/29	63	29.7	28.4	35.9	29.2**	
Snow Caps Creek	18A5	2150	4/26	0	0.0	0.0	0.0	~ ~	
Snow Caps Trail	18A6	2720	4/26	0	0.0	0.0	0.0	₩ =	
Summit G. S.	18A7	4600	4/26	7	2.5	7.2	6.4		
SPOKANE RIVER									
Copper Ridge	16B2	4800	5/3	39	18.7	27.6	44.0	29.3	
Forty-nine Meadows	15B3	5000	4/29	48	22.8	20.2	40.0	32.3	
4th of July Summit	16B3	3100	4/29	0	0.0	0.0	3.2		
Granite Peak	15B13A	6000	4/29	87	45.0		53.3		
#Lookout	15B15A	5250	4/29	66	30.0	36.6	44.3	36.4	
Lost Lake	15B2 15B14A	6000	4/29	114	49.8	70.9	74.4	JU.4	
Lower Sands Creek	16B1	3400	5/3	31	13.4	16.6	28.8	14.2*	
Lower Sands Creek	TODI	54(11)	515) I	10.4	10.0	20.0	14.2"	

[#] Not directly on this drainage
* Adjusted 1948-62 average
** Average for years of record

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			SNOW COVER MEASUREMENT 1966 : Past Record						
				1966		:Pas			
DRAINAGE BASIN			Date	Snow	Water	: Water	Content		
and			of	Depth	Conten	t:		1948-62	
SNOW COURSE	No.	Elev.	Survey	(In.)	(In.)	:1965	1964	Avg.	
SPOKANE RIVER	(Cont.)								
Medicine Ridge	15B4A	6150	4/28	91	41.8		52.7	as ##	
Outlaw Creek	15B12	3750	4/29	19	8.2		16.5	cus stab	
OKANOGAN RIVER									
Aberdeen Lake	Canada	4300	4/29	2	0.7	0.0	3.3	1.5**	
Blackwall Mountain	Canada	6250	5/2	86	34.0	33.9	48.4	37.1%	
Bouleau Creek	Canada	5000	4/30	18	6.8	8.7	10.6	6.9*	
Brookmere	Canada	3200	5/1	9	3.2	2.4	9.1	5.5*	
Clark +	19A8a	7000	4/30	42	16.8		24.2	um cum	
Enderby	Canada	6250	4/26	92	39.8	41.8	39.9		
#Freezeout Meadows	20A2	5000	4/28	65	29.2	33.2	37.1	33.7%	
Hamilton Hill	Canada	4900	4/30	16	7.1	9.3	18.0	10.6*	
#Harts Pass	20A5A	6500	4/27	85	39.5	47.5	52.8	51.6	
Isintok Lake	Canada	5510	4/28	9	3.2	4.8		as es	
Lost Horse Mountain		6300	5/3	13	4.2	10.6	13.2	9.4*	
McCulloch .	Canada	4200	4/28	3	0.9	2.8	4.9	2.9	
Missezula Mountain	Canada	5100	5/1	0	0.0	8.5	9.2	4.3×	
Mission Creek	Canada	6000	4/30	51	18.9	21.1	23.9	21.3*	
Monashee Pass	Canada	4500	4/28	31	13.5	12.0	16.3	12.9%	
Muckamuck +	19A9a	6390	4/30	26	10.4		16.8	eo 40	
Mutton Creek No. 1	19A1	5700	5/1	6	2.4	8.5	8.0	9.9	
Mutton Creek No. 2	19A4	6000	5/1	26	10.3	14.6	12.2	15.3	
Nickel Plate Mtn.	Canada	6200	5/3	13	4.9	8.1	12.8	8.3%	
Postill Lake	Canada	4500	4/29	17	6.1	4.1	7.8	6.6*	
Rusty Creek	19A3	4000	5/1	0	0.0	0.0	0.0	1.5*	
Salmon Meadows	19A2	4500	5/1	0	0.0	3.8	3.2	5.1	
Silver Star Mtn.	Canada	6050	4/28	62	26.4	22.0	32.4	23.9*	
Starvation Mtn. +	19A10a	6750	4/30	48	19.2		22.0	00 ed	
Summerland Reserv.	Canada	4200	4/26	12	3.9				
Trout Creek	Canada	4700	5/1	8	2.7	3.7	6.8	4.9*	
METHOW RIVER									
Harts Pass	20A5A	6500	4/27	85	39.5	47.5	52.8	51.6	
#Mutton Creek No. 1		5700	5/1	6	2.4	8.5	8.0	9.9	
#Mutton Creek No. 2		6000	5/1	26	10.3	14.6	12.2	15.3	
#Rusty Creek	19A3	4000	5/1	0	0.0	0.0	0.0	1.5*	
#Salmon Meadows	19A2	4500	5/1	0	0.0	3.8	3.2	5.1	

[#] Not loacated directly on this basin

^{*} Adjusted 1948-62 average

^{**} Average for years of record

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							SUREMENT	****************
				1966		:Pas	Married Committee of the Committee of th	cord
DRAINAGE BASIN and			Date of	Snow Depth	Water Content	423000000000000000000000000000000000000	Content	(In.) 1948-62
SNOW COURSE	No.	Elev.	Survey	(In.)	(In.)	:1965	1964	Avg.
CHELAN LAKE BA	SIN							
Rainy Pass	20A9	4780	4/27	67	32.3	42.2	51.1	45.1*
Safety Harbor	20A30A	6300	4/28	53	23.4	24.7	88	400 688
ENTIAT RIVER								
Brief	20B19	1600	4/26	0	0.0	0.0	0.0	eo eo
Entiat River Tr. +	20A34a	3150	4/27	0	0.0	New A	erial Man	rker
Pope Ridge	20B20	4300	4/28	4	1.7	New Co	ourse	
Pugh Ridge +	20A32a	6600	4/27	55	24.0		erial Man	rker
Snow Brushy +	20A35a	3850	4/27	33	14.4	New A	erial Man	rker
Tommy Creek +	20B21a	5300	4/27	22	9.6	New A	erial Ma	rker
WENATCHEE RIVE	<u>IR</u>							
Berne-Mill Creek	21B23	2925	4/29	29	13.7	18.2	33.7	G 49
Blewett Pass No. 2	20B2	4270	5/2	5	2.7	4.3	13.5	10.4
Chiwaukum G. S.	20B16	1810	4/29	0	0.0	0.0	0.4	
Fish Lake	21B4	3371	5/3	25	12.6	17.6	37.4	26.2*
Lake Wenatchee	20B5	1970	4/29	0	0.0	0.0	0.0	
Leavenworth R. S.	20B3	1127	5/1	0	0.0	0.0	0.0	80 69
Merritt		2140	4/29		0.0	0.0	4.6	60 ED
_	20B18			0				54.8*
Stevens Pass	21B1	4070	4/29	96	43.4	54.7	79.2	34.0°
SQUILCHUCK CRE	EK							
Beehive Springs	20B3	4400	4/26	0	0.0	0.0	0.0	
Scout-A-Vista	20B4	3400	4/26	0	0.0	0.0	0.0	
STEMILT CREEK								
Jump-Off	20B8	4450	4/26	0	0.0	0.0	0.0	
Stemilt Slide	20B6	5000	4/26	12	5.8	2.8	0.0	
Upper Wheeler	20B7	4400	4/26	0	0.0	0.0	0.0	
YAKIMA RIVER								
Ahtanım D. C	21.01.1	2100	E /1	0	0.0	0 0	0.0	ر م
Ahtanum R. S.	21C11	3100	5/1	0	0.0	0.0	0.0	0.0*
Big Boulder Creek	21B9	3200	5/3	0	0.0	0.0	15.9	5.8*
#Blewett Pass No. 2	ZOBZ	4270	5/2	5	2.7	4.3	13.5	10.4

[#] Not directly on this drainage * Adjusted 1948-62 average

⁺ Snow water equivalent estimated from aerial stadia marker

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No. (Cont.) 21C8 21B4 21B14M 21C17 21B2 20D1 21B10 21B8	3450 3371 2200 5400 3625 4030	4/27 5/3 5/1 4/28	of Depth Content: Survey (In.) (In.):1965 1966 4/27 21 10.9 4.4 12. 5/3 25 12.6 17.6 37. 5/1 0 0.0 0.0 0.0 4/28 103 44.8 53.2 66. 4/28 94 44.3 49.1 87. 4/29 13 6.1 0.0 4.							
21C8 21B4 21B14M 21C17 21B2 20D1 21B10 21B8	3450 3371 2200 5400 3625 4030	of Survey 4/27 5/3 5/1 4/28	Depth (In.) 21 25 0	10.9 12.6	:: :1965 4.4 17.6	1964 12.8 37.4	1948-62 Avg.			
21C8 21B4 21B14M 21C17 21B2 20D1 21B10 21B8	3450 3371 2200 5400 3625 4030	4/27 5/3 5/1 4/28	21 25 0	(In.) 10.9 12.6	:1965 4.4 17.6	12.8	Avg. 10.5			
21C8 21B4 21B14M 21C17 21B2 20D1 21B10 21B8	3450 3371 2200 5400 3625 4030	4/27 5/3 5/1 4/28	21 25 0	10.9 12.6	4.4 17.6	12.8	10.5			
21C8 21B4 21B14M 21C17 21B2 20D1 21B10 21B8	3371 2200 5400 3625 4030	5/3 5/1 4/28	25 0	12.6	17.6					
21B4 21B14M 21C17 21B2 20D1 21B10 21B8	3371 2200 5400 3625 4030	5/3 5/1 4/28	25 0	12.6	17.6					
21B14M 21C17 21B2 20D1 21B10 21B8	3371 2200 5400 3625 4030	5/3 5/1 4/28	25 0	12.6	17.6					
21C17 21B2 20D1 21B10 21B8	2200 5400 3625 4030	5/1 4/28	0				26.2*			
21B2 20D1 21B10 21B8	5400 3625 4030	4/28		0.0	0.0	0.0				
20D1 21B10 21B8	4030	4/28	103			66.7	70.8*			
21B10 21B8						87.2	48.9*			
21B8		•	13			4.7				
	3000	4/28	84	39.3	47.1	66.1	47.9*			
	2450	4/28					19.5			
2)21C28		•					31.2*			
)21C27	4500	5/2	45	21.0	22.8	42.6				
21C11	3100	5/1	0	0.0	0.0	0.0	0.0%			
LOWEI	R CO	LUMB	I A	DRAI	NAGE	<u> </u>				
17C4	5700	4/29	43	21.6						
<u>IR</u>										
20D1	4030	4/29	13	6.1	0.0	4.7				
LIVER										
21C12	4000	4/29	104	50.8	38.4	55.4	52.1*			
21C13A	4250	4/29	110	53.5	41.8	63.4	54.0*			
21D19	3100	4/26	55	26.7	9.4	19.6	8.8*			
21.021	2200	1, 100	2.2	11 0	2 1	11 5				
		•								
	21C11 LOWE 17C4 22C11 21C12 21C12 21C13A	2)21C28 4500 21C27 4500 21C11 3100 LOWER CO 17C4 5700 R 20D1 4030 2IVER 21C12 4000 21C13A 4250 21D19 3100 21C21 2200	2)21C28	2)21C28	2)21C28	2)21C28	2)21C28			

[#] Not directly on this drainage

^{*} Adjusted 1948-62 average + Snow water equivalent estimated from aerial stadia marker

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				SNOW C	OVER MEA	ER MEASUREMENT			
				1966		:Pas		cord	
DRAINAGE BASIN			Date	Snow			Content		
and			of	Depth	Conten	t:		1948-62	
SNOW COURSE	No.	Elev.	Survey	(In.)	(In.)	:1965	1964	Avg.	
TELITO DIVER /O	t- \								
LEWIS RIVER (C	ont.)								
Council Pass +	21C18a	4200	4/29	81	38.9	25.0	50.5	35.7*	
#Cultus Creek	21C12	4000	4/29	104	50.8	38.4	55.4	52.1*	
Divide Meadow +	21C29a	5600	4/29	118	56.5	58.0	63.5		
Grand Meadow	21C25	3500	4/28	46	21.2	19.7	25.4		
Lone Pine Shelter	21C26	3800	4/25	116	57.2	40.6	53.2		
Marble Mountain	22C5a	3200	4/29	95	49.0	7.8	50.1		
#Mosquito Meadows	21C19	4100		Measure				48.4*	
New Muddy River	22C6	1400	4/25	0	0.0	0.0	0.0		
Oldman Pass	21D19	3100	4/26	55	26.7	9.4	19.6	8.8*	
Smith Creek Road	22C4	2100	4/25	0	0.0	0.0	0.0		
Spencer Meadow	21C20a	3400	4/29	62	31.0	0.0	27.3		
Surprise Lakes	21C13A	4250	4/29	110	53.5	41.8	63.4	54.0*	
Table Mountain +	21C24a	4200	4/29	103	49.5	32.8	51.9		
Timbered Peak +	21D18a	3000	4/29	12	6.0	0.0	20.7	w sa	
rimbered reak :	21D10 a	3000	4/23	12	0.0	0.0	20.7		
COWLITZ RIVER									
JOHN THE									
Mosquito Meadows	21C19	4100	Not N	leasur	h-d			48.4*	
Ohanapecosh	21C32	2200	5/2	7	3.1	2.2	10.6		
Pigtail Peak	21C33	5900	5/2	106	53.1	64.9	97.2		
White Pass (E Side		4500	4/28	44	19.6	22.4	32.1	31.2*	
White Pass (Leech L		4500	5/2	45	21.0	22.8	42.6		
"WILLE LASS (EEEI E							42.0		
: :	PUG	E I	SOUN	ע ע	RAIN	AGE			
WHITE RIVER									
#Morse Lake	21C17	5400	4/28	103	44.8	53.2	66.7	70.8*	
GREEN RIVER									
Stampede Pass	21B10	3000	4/28	84	39.3	47.1	66.1	47.9*	
SNOQUALMIE RIV	ER								
Olallie Meadows	21B2	362 5	4/28	94	44.3	49.1	87.2	48.9*	
SKYKOMISH RIVE									
#Stevens Pass	21B1	4070	4/29	96	43.4	54.7	79.2	54.8*	

[#] Not directly on this drainage
* Adjusted 1948-62 average
+ Snow water equivalent estimated from aerial stadia marker

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			SNOW COVER MEASUREMENT					
				1966		:Pas		cord
DRAINAGE BASIN			Date	Snow	Water	: Water	Content	
and			of	Depth	Content			1948-62
SNOW COURSE	No.	Elev.	Survey		(In.)		1964	Avg.
SKAGIT RIVER								
Beaver Creek Trail	21A4	2200	4/27	10	4.4	4.8	8.4	6.6*
Beaver Pass	21A1	3680	4/28	74	35.6	29.3	41.9	37.1*
Devils Park	20A4	5900	4/27	88	39.4	43.8	55.3	49.4*
Freezeout Cr. Trail	20A1	3500	4/28	12	4.8	9.0	13.4	9.4*
Freezeout Meadows	20A2	5000	4/28	65	29.2	33.2	37.1	33.7*
#Harts Pass	20A5A	6500	4/27	85	39.5	47.5	52.8	51.6
Lake Hozomeen	21A2	2600	4/28	20	7.6	6.0	10.4	6.3*
Meadow Cabins	20A8	1900	4/27	0	0.0	0.0	5.1	2.8*
#Rainy Pass	20A9	4780	4/27	67	32.3	42.2	51.1	45.1*
Thunder Basin	20A7	4200	4/27	47	20.7	25.5	34.0	29.3*
BAKER RIVER								
Dock Butte	21A11A	3800	4/28	160	79.7	65.6	110.1	~ ~
Easy Pass	21A7A	5200	4/28	179	85.5		134.4	an 100
Jasper Pass	21A6A	5400	4/28	196	93.9	84.0	121.0	
Koma Kulshan	21A17	800	4/29	0	0.0	0.0	0.0	
Marten Lake	21A9A	3600	4/28	172	86.2	73.6	115.8	
Panorama	21A5	4300	Not M	easure	d	83.6	99.8	
Rocky Creek	21A12A	2100	4/28	68	34.1	16.0	35.7	
Schreibers Meadow	21A10A	3400	4/29	141	74.2	57.8	92.3	er en
S.F. Thunder Cr.	21A14A	2200	4/29	0	0.0	0.0	4.8	
Sulphur Creek	21A13	1600	4/29	22	10.0	0.0	14.1	
Three Mile Creek	21A8A	4500	4/29	0	0.0	0.0	0.0	
Watson Lakes	21A8A	4500	4/28	160	77.9	64.8	98.9	
NOOKSACK RIVER								
Panorama	21A5	4300	Not M	leasure	d	83.6	99.8	en eu
	OLY	MPIC	PEN	INS	ULA			
DUNGENESS RIVE	R							
Deer Park	23B4	5200	4/26	58	28.4	18.7	26.9	26.6*

[#] Not directly on this drainage
* Adjusted 1948-62 average

⁺ Snow water equivalent estimated from aerial stadia marker

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^{*} Adjusted 1946-62 process

* Selection value of this expense. Prior which against a training and a supplied that a reality world

APPENDIX 9

					SNOW CO	OVER MEA	SUREMEN	T
				1966		:Pas	t Re	cord
DRAINAGE BASIN			Date	Snow	Water	: Water	Conten	•
and			of	Depth	Content	t:		1948-62
SNOW COURSE	No.	Elev.	Survey	(In.)	(In.)	:1965	1964	Avg.
MORSE CREEK								
Deer Park G. S.	23B13	4850	4/26	35	16.9	10.6		~ ~
Morse Creek	23B12	5425	4/26	97	44.3	33.7	59.5	
ELWHA RIVER								
Hurricane	23B3	4500	4/27	70	32.8	20.5	35.7	31.5*

^{*} Adjusted 1948-62 average

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	Total series	To Yell amilion			-11	-01/	MINUS WARTS
							STUD TINGS
	130		17	12/3		T1003 2003	Design Tark C. S. Narki Creek
							KENER SEVEN
		10.75				LALS	son draw

Adjusted 1945-61 sersupe

Agencies Assisting with Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests and Water Resources, Water Resources Service, British Columbia

States:

Washington State Department of Conservation Washington State Department of Natural Resources

Federal:

Department of the Army Corps of Engineers

- U. S. Department of Agriculture Forest Service
- U. S. Department of Commerce Weather Bureau
- U. S. Department of the Interior Bonneville Power Administration Bureau of Reclamation Geological Survey National Park Service

PUBLIC AND PRIVATE UTILITIES

Chelan County P.U.D.
Pacific Power and Light Company
Puget Sound Power and Light Company
Washington Water Power Company

OTHER PUBLIC AGENCIES

Okanogan Irrigation District Wenatchee Heights Irrigation District

MUNICIPALITIES

City of Walla Walla City of Tacoma City of Seattle

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ROOM 840. BON MARCHE BLDG. SPOKANE . WASHINGTON 99201

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